

SUPERIOR PERFORMANCE AND RELIABILITY





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SHINGLED TECHNOLOGY

From 420Wp & up to 675Wp











Reduced Risk Of Micro Cracks

ADVANTAGES OF PUMA SHINGLED MODULES

REDUCED RISK OF MICRO CRACKS

The replacement of soldered ribbons with a low temperature and flexible ECA decreases thermal stresses during the modules production and operation, decreasing the risk of micro cracks formation.

Mechanical stresses (e.g. snow load) are relieved by the flexible interconnection, improving the reliability in harsh environments (as reflected in the increased warranty provided).

HIGHER CELLS DENSITY AND IMPROVED AESTHETICS

The inactive area is considerably reduced, no ribbons and cells gaps on strings improving the efficiency and aesthetic in full black modules.

LOWER RESISTIVE LOSSES AND THERMAL COEFFICIENT

The resistive losses in strings are considerably decreased thanks to the lower current of shingles (1/6 or 1/7 of the original cell) and the lack of interconnection ribbons in strings, improving at the same time the performance at high temperatures.



Higher yield per surface area



Higher yield in hot climate



Low Pmax at-0,3% / °C







SMALL SIZE FOR ROOF TOP INSTALLATION

The PUMA module with power class over 555Wp, efficiency up to 21,6% and 25 years product & up to 30 years output warranty is:

- Best "Value for money" choice
- Ideal for rooftop installations (in the same size of the rooftop, more power can be installed compared to standard modules)
- Low LCOE

FOR COMMERCIAL & UTILITY INSTALLATIONS The PUMA module with power class up to 675Wp, efficiency up to 21,7% and 25 years product & output warranty.

> SEAMLESSLY INTEGRATES WITH THE ROOFTOP



First Year Output **2-30** Year Decline ≤ 0.42% ^{30 Year} ≥ 85.82%







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